

IoT Based Intelligent Gas Leakage Detector using Arduino

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Abstract: *This study focuses the effectiveness of the propose project Automated LPG gas leakage detector using Arduino base sensor. Specifically, it deals the main usage of the proposed project, its functionality, durability and safety and how this project works properly in other to help people as a new innovation. The project is tested out of 25 respondents that has knowledge regarding electricity, enough to understand the flow of the project its material used, functions, usage and how it works. Findings of the study revealed that the proposed project has a very good application. The proposed project has a very good application. It can detect gas primarily LPG, and other combustible gas that may cause danger to our health and my led to fire. Device has a display to show the amount of gas detected and it indicates also the percentage of or gas level being detected. In addition, on the basis of the findings of the study, it is concluded that the proposed device can be used both home and commercial establishments that it could detect early gas leakage and it will alarm so that accident can be prevented immediately. On the basis of recommendations, this device is more suitable to be used not just in individual home but also have a good usage in commercial establishments especially for food establishments where LPG usage is on daily basis. This might come handy after all the fact that it has an early detection system that will alert establishments on the gas leakage situation.*

Keywords: Gas leakage, Gas Detector, Arduino Microcontroller, IOT